What is Claimed is:

1. A method of fabricating a silicon carbide imprint stamp, comprising:

patterning a mold layer;

etching the mold layer to form a cavity in the mold layer, the cavity including a first feature size that is greater than or equal to a lithography limit;

depositing a spacer layer on the mold layer, the spacer layer conformally covering a surface of the cavity;

forming a spacer in the cavity by anisotropically etching the spacer layer so that the spacer is connected with a portion of the surface of the cavity and the spacer partially fills the cavity so that the cavity includes a second feature size that is less than the lithography limit;

depositing a material comprising silicon carbide in the cavity and on the spacer to form a feature positioned in the cavity and a foundation layer connected with the feature and at least a portion of the feature includes the second feature size;

planarizing the foundation layer to form a substantially planar surface;

bonding a handling substrate with the foundation layer by applying heat and pressure to the handling substrate and the mold layer until the handling substrate and the foundation layer form a mechanical bond with each other; and

extracting the silicon carbide imprint stamp by releasing the feature and the foundation layer from the mold layer.

- 2. The method as set forth in Claim 1, wherein the releasing comprises a grinding a backside surface of the mold layer until the mold layer is released from the feature and the foundation layer.
- 3. The method as set forth in Claim 2, wherein the grinding comprises a chemical mechanical planarization process.
- 4. The method as set forth in Claim 2 and further comprising:

etching a remainder of the mold layer and the spacer to effectuate the releasing of the feature and the foundation layer.

- 5. The method as set forth in Claim 1, wherein the surface of the cavity includes a bottom surface and a sidewall surface and the spacer is connected with the sidewall surface of the cavity.
- 6. The method as set forth in Claim 1 and further comprising:

after the extracting, forming a master imprint stamp by mounting a plurality of the silicon carbide imprint stamps to a master substrate.

7. The method as set forth in Claim 6 and further comprising:

positioning a plurality of the silicon carbide imprint stamps in an array of rows and columns on the master substrate.

- 8. The method as set forth in Claim 1, wherein the forming the spacer comprises a reactive ion etching of the spacer layer.
- 9. The method as set forth in Claim 1, wherein the etching the mold layer comprises an anisotropic reactive ion etching of the mold layer to form the cavity.

10. A method of fabricating a silicon carbide imprint stamp, comprising:

patterning a mold layer;

etching the mold layer to form a cavity in the mold layer, the cavity including a first feature size that is greater than or equal to a lithography limit;

depositing a spacer layer on the mold layer, the spacer layer conformally covering a surface of the cavity;

forming a spacer in the cavity by anisotropically etching the spacer layer so that the spacer is connected with a portion of the surface of the cavity and the spacer partially fills the cavity so that the cavity includes a second feature size that is less than the lithography limit;

depositing a material comprising silicon carbide in the cavity and on the spacer to form a feature positioned in the cavity and a foundation layer connected with the feature and at least a portion of the feature includes the second feature size;

planarizing the foundation layer to form a substantially planar surface;

depositing a glue layer on the substantially planar surface of the foundation layer;

bonding a handling substrate with the glue layer by applying pressure and heat to the handling substrate and the mold layer until the glue layer forms a mechanical bond with the foundation layer and the handling substrate; and

extracting the silicon carbide imprint stamp by releasing the feature and the foundation layer from the mold layer.

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- 11. The method as set forth in Claim 10, wherein the releasing comprises a grinding a backside surface of the mold layer until the mold layer is released from the feature and the foundation layer.
- **12.** The method as set forth in Claim 11, wherein the grinding comprises a chemical mechanical planarization process.
- **13.** The method as set forth in Claim 11 and further comprising:

etching a remainder of the mold layer and the spacer to effectuate the releasing of the feature and the foundation layer.

- **14.** The method as set forth in Claim 10, wherein the surface of the cavity includes a bottom surface and a sidewall surface and the spacer is connected with the sidewall surface of the cavity.
- 15. The method as set forth in Claim 10 and further comprising:

after the extracting, forming a master imprint stamp by mounting a plurality of the silicon carbide imprint stamps to a master substrate.

16. The method as set forth in Claim 15 and further comprising:

positioning a plurality of the silicon carbide imprint stamps in an array of rows and columns on the master substrate.

- 17. The method as set forth in Claim 10, wherein the forming the spacer comprises a reactive ion etching of the spacer layer.
- **18.** The method as set forth in Claim 10, wherein the etching the mold layer comprises an anisotropic reactive ion etching of the mold layer to form the cavity.